

ASIAN AUSTRALIAN MONSOON TIME SCALE

(Basics of the Asian Australian Monsoon Time Scale)

By

Gangadhara Rao Irlapati

H.No.5-30-4/1, Saibaba Nagar, Jeedimetla,

Hyderabad, Telanagana State, India-500055.

Email:- scientistgangadhar@gmail.com

ABSTRACT:

In the Asian Australian Monsoon system the dry air from the winter continent flows across the equator toward the summer hemisphere picking up moisture from the warm oceans and bleeding the monsoon rains over the summer content. The dominant driver of Asian Australian monsoon changes from year to year is the EL Nino Southern Oscillation phenomenon.

KEY WORDS:

Asian Australian Monsoon, Indian monsoon Time Scale, Chronological sequence, Main path of the Indian Monsoon Astrogophysical/Astrometeorological Phenomena.

INTRODUCTION:

The Asian Australian Monsoon Time Scale is a Chronological sequence of events arranged in between time and weather with the help of a scale for studying the past, present and future movements of the Asian Australian Monsoon and its relationship with rainfall and other weather problems and natural calamities.

PREPARATION OF THE SCALE:

Prepare the Asian Australian Monsoon Time Scale having 365 horizontal days from March 21st to next year March 20th (or 1st April to next year March 31st or according to convenience) for a required period comprising of a large time and weather have been taken and framed into a Square graphic scale, or 2, or 4 parts later the parts may be combined with pasting.

DATA REQUIRED FOR THE SCALE:

The main Weather events of the monsoon season if any pertaining to the monsoon season may be taken to formulating the Asian Australian Monsoon time Scale.

PERFORMANCE OF THE SCALE:

Prepare the Asian Australian Monsoon Time Scale having 365 horizontal days from March 21st to next year March 20th (or 1st April to Next Year March 31st or according to convince) for a required period comprising of a Large time and weather have been taken and framed into a square graphic Scale . The Scale may be prepared either in a single from, or 2 ,or 4 parts later the parts should be combined with pasting. The main weather events if any pertaining to the monsoon season of the region have been entering on the scale as per the date and month of the each and every year. If we have been managing the Asian Australian Monsoon Time Scale in this manner continuously we can study the past, present and future movements of the Asian Australian Monsoon and its relationship with weather problems and Natural calamities of the monsoon.

SAMPLE MODEL SCALE:

For example, I have prepared the monsoon time scale for India by preparing the scale having 365 horizontal days from 1st April to next year March 31st of 128 years from 1888 to 2016 of the required period comprising of large time and weather have been taken and framed into a square graphic scale. The monsoon pulses in the form of low pressure systems over the Indian region have been entering on the scale in stages by 1 for low, 2 for depression, 3 for storm, 4 for severe storm and 5 for severe storm with core of hurricane winds pertaining to the date and month

of the each and every year. If we have been managing the scale in this manner continuously, we can study the past' present's and future's of the India Monsoon and its relationship with rainfall and other weather problems & natural calamities in India.

ANALYSIS:

The India Monsoon Time Scale reveals many secrets of the Indian monsoon and its relationship with rainfall & other weather problems and natural calamities. For example, some bands, clusters and paths of low pressure systems along with the main paths of the Indian Monsoon (South-west monsoon and north-east monsoon) clearly seen in the map of the Indian monsoon it have been some cut-edged paths passing through its systematic zigzag cycles in ascending and descending orders which causes heavy rains & floods in some years and droughts & famines in another years according to their travel. . The tracking date of main path & other various paths such as south-west monsoon and north-east monsoon etc., of the Indian Monsoon denotes the onset of the monsoon, monsoon pulses or low pressure systems. And also we can find out many more secrets of the Indian monsoon such as droughts, famines, cyclones, heavy rains, floods, real images of the Indian monsoon, and onset & withdrawals of south west monsoon and north-east monsoon etc. by keen study of the Indian Monsoon Time Scale.

MEASURING OF THE MONSOON:

For example, during 1871-1990's, the main path of the Indian Monsoon was rising over June, July, August and creating heavy rains and floods in most years. During 1900-1920's, it was raising over August, September and resulting good rainfall in more years. During 1965-2004's it was falling over September and causing low rainfall and droughts in many years. At present it is rising upwards over June, July, August, September and will be resulting heavy rains & floods in coming years during 2004-2060. The tracking date of main path & other various paths such as south-west monsoon and north-east monsoon etc., of the Indian Monsoon denotes the onset of the monsoon, monsoon pulses or low pressure systems. And also we can find out many more secrets of the Indian monsoon such as droughts, famines, cyclones, heavy rains, floods, real images of the Indian monsoon, and onset & withdrawals of south west monsoon and north-east monsoon etc. by keen study of the Indian Monsoon Time Scale.

PRINCIPLE:

This is an Astrogeophysical/Astrometeorological phenomenon of effects of astronomical bodies and forces on the earth's geophysical atmosphere. The cause is unknown however the year to year change of movement of axis of the earth inclined at $23\frac{1}{2}$ degrees from vertical to its path around the sun does play a significant role in formation of clusters, bands & paths of the Indian Monsoon and stimulates the Indian weather. The inter-tropical convergence zone at the equator follows the movement of the sun and shifts north of the equator merges with the heat low pressure zone created by the rising heat of the sub-continent due to direct and converging rays of the summer sun on the India Sub-Continent and develops into the monsoon trough and maintain monsoon circulation.

PHYSICAL APPEARANCE:

It is came to known in my researches that the Asian Australian Monsoon has a special physical appearance just as the Indian Monsoon.

MEASURES OF THE EUROPEAN MONSOON:

It is came to known in my researches that the Asian Australian Monsoon having some peculiar measures just as identified in the Indian Monsoon.

CONCLUSIONS:

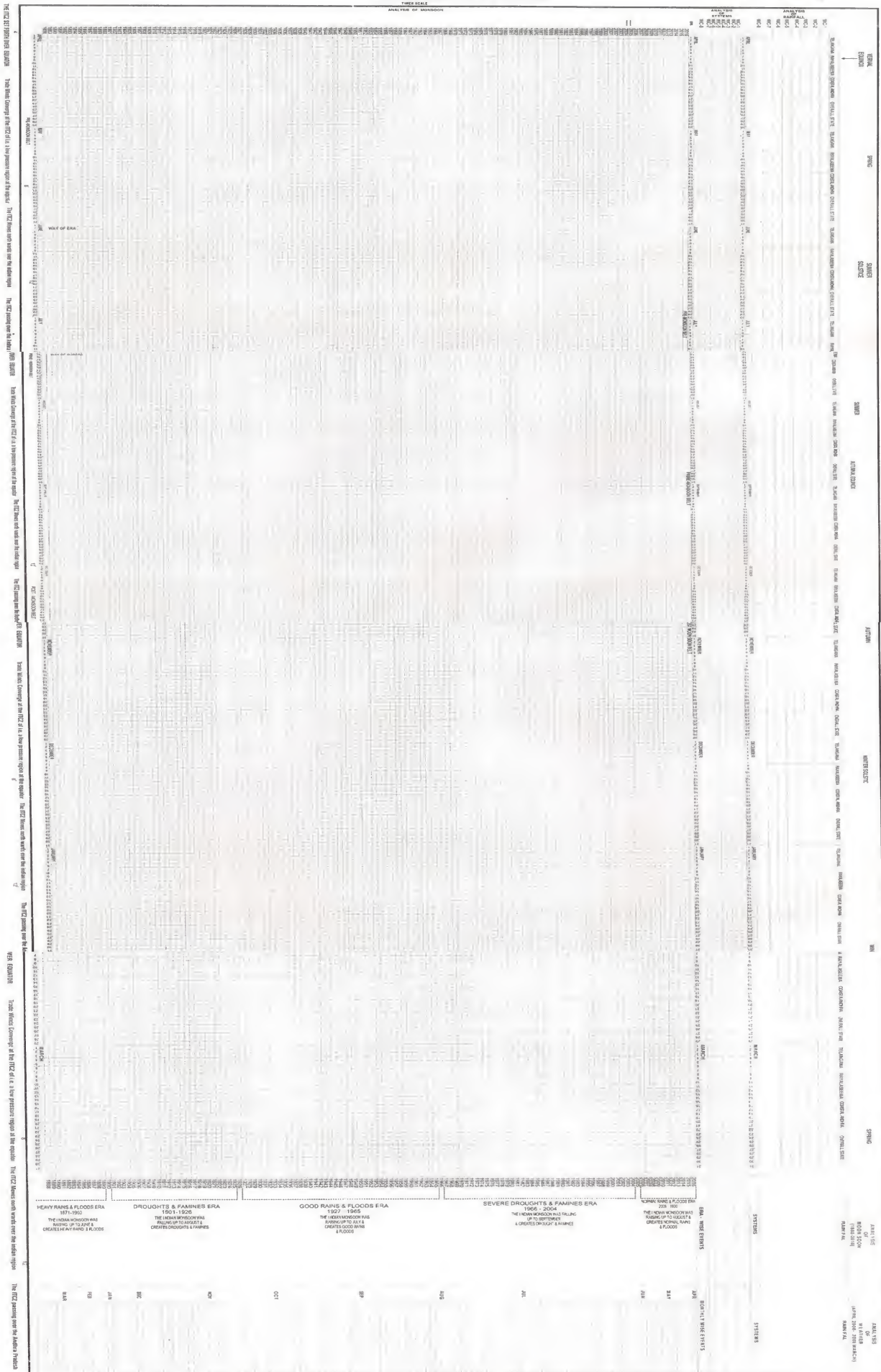
The world Scientist hereby requested to continue the further researches on the Asian Australian Monsoon Time Scale and find out the mysteries of the Asian Australian Monsoon. we can make many more modifications thus bringing many more developments in the Asian Australian Monsoon Time Scale.

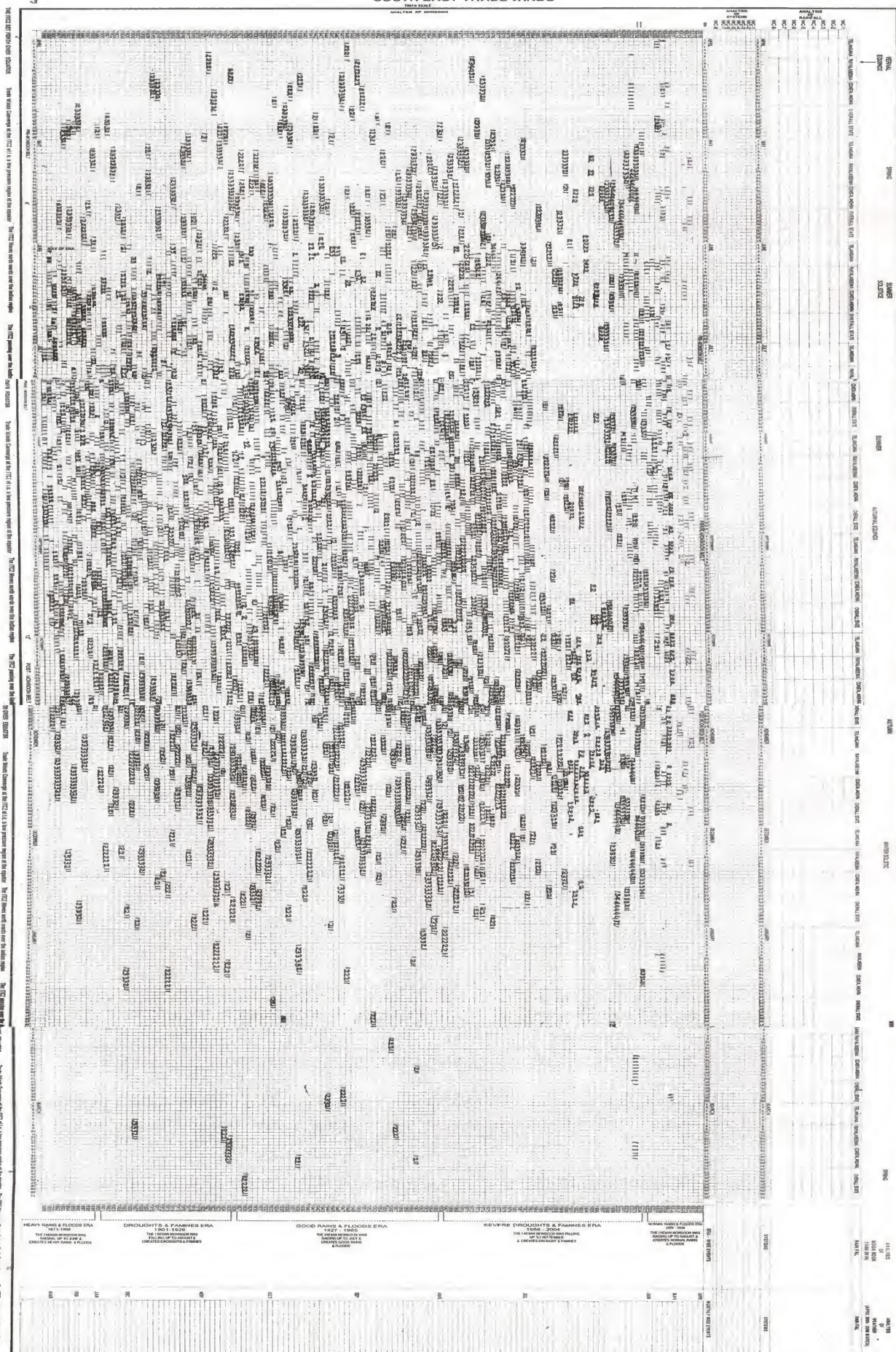
REFERENCES:

1. Mooley DA. Shukla J(1987);Characteristics of the west ward-moving summer monsoon low pressure systems over the Indian region and their relationship with the monsoon rainfall. Centre for ocean-land atmospheric interactions, university of Maryland, college park, MD.
2. All India monthly and seasonal rainfall series,1871-1993,B.Parthasarathy,A.AMunot, D.R. Kothawale, Theoretical and applied climatology,1994,Springer.
3. Das P.K. and B.L. Bose, 1958, Numerical study of movement of monsoon depression, Ind. journal of meteor. Geophysics,
4. Analysis of variability and trends of extreme rainfall events over India using 104 years of gridded daily rainfall data, M. Rajeevan, J.Bhate, A.K. Jaswal, Geophysical Research letters,2008,online library.
5. jadhav, S.K.and A.A.Munot,2004;statistical study of the low pressure systems during summer monsoon season over the Indian region,mausam,55,15-30.
6. Clustering of low pressure system during the Indian summer monsoon by intra seasonal oscillations, bn.goswami, rs. ajaya mohan, prince Xavier ,and d. sengupta, centre for atmospheric and oceanic studies, Indian institute of science, bangolour, India.
7. Composite structure of monsoon low pressure system and its relation to Indian rainfall, v. Krishna murthy and rs. Ajaya mohan, 2010, j.climate,23,4285-4305
8. Indian monsoon university of st Andrews www.andrews.ac.uk/dibz/asia/monsoon/html.
9. Indian monsoon /meteorology/Britannica/.com [www.britanica.com/science /Indian monsoon](http://www.britanica.com/science/Indian%20monsoon).
10. The global monsoon system: research and fore cast ;caos.iisc.in/faculty/bng/iwm-iii-bng-overview
11. Climate prediction centre-global monsoon; [www.cpc ncep.noaa.gov](http://www.cpc.ncep.noaa.gov/climate.weather), climate. weather.
12. The global monsoon system, [www.wcrp-climate.org/documents/](http://www.wcrp-climate.org/documents/monsoon-factsheet) monsoon –factsheet.
13. all India monthly and seasonal rainfall series, 1871-1993,b.parthasarathy, a.a mount,Dr. kothawale, theoretical and applied climatology,1994, Springer.
14. Parthasarathy .b, mount. aa, kothawale.dr, monthly and seasonal rainfall series for all India homogeneous regions and meteorological sub-divisions, 1871-1994, research report, iitm Pune.
15. Longest instrumental rainfall series of the Indian regions(1813-2006), Indian institute of tropical meteorology, Pune.
16. All Indian data series-(imd) Pune.
17. Monthly rainfall data series-ministry of earth sciences, moes.gov.in/
18. 114 years rainfall in India-interactive, India environmentportal.org.in/rainfall in India.
19. Education national geography.org/encyclopedia/monsoon.
20. Phoenix about.com/od/weather/a/monsoon trivia/htm.
21. In.wikipedia.org/wiki/monsoon.
22. [www.wcpr-climate.org/documents/monsoon facts sheet](http://www.wcpr-climate.org/documents/monsoon%20facts%20sheet).
23. The Global Monsoon system: Research and forecast (Report of the India National Committee of third International workshop on Monsoon (IWM-III)) 2-6 Nov-2004, Hangzhou, China Report No.70.

APPENDICES:

INDIAN WEATHER TIMES SCALE





Autumnal equinox,

Winter Solstice

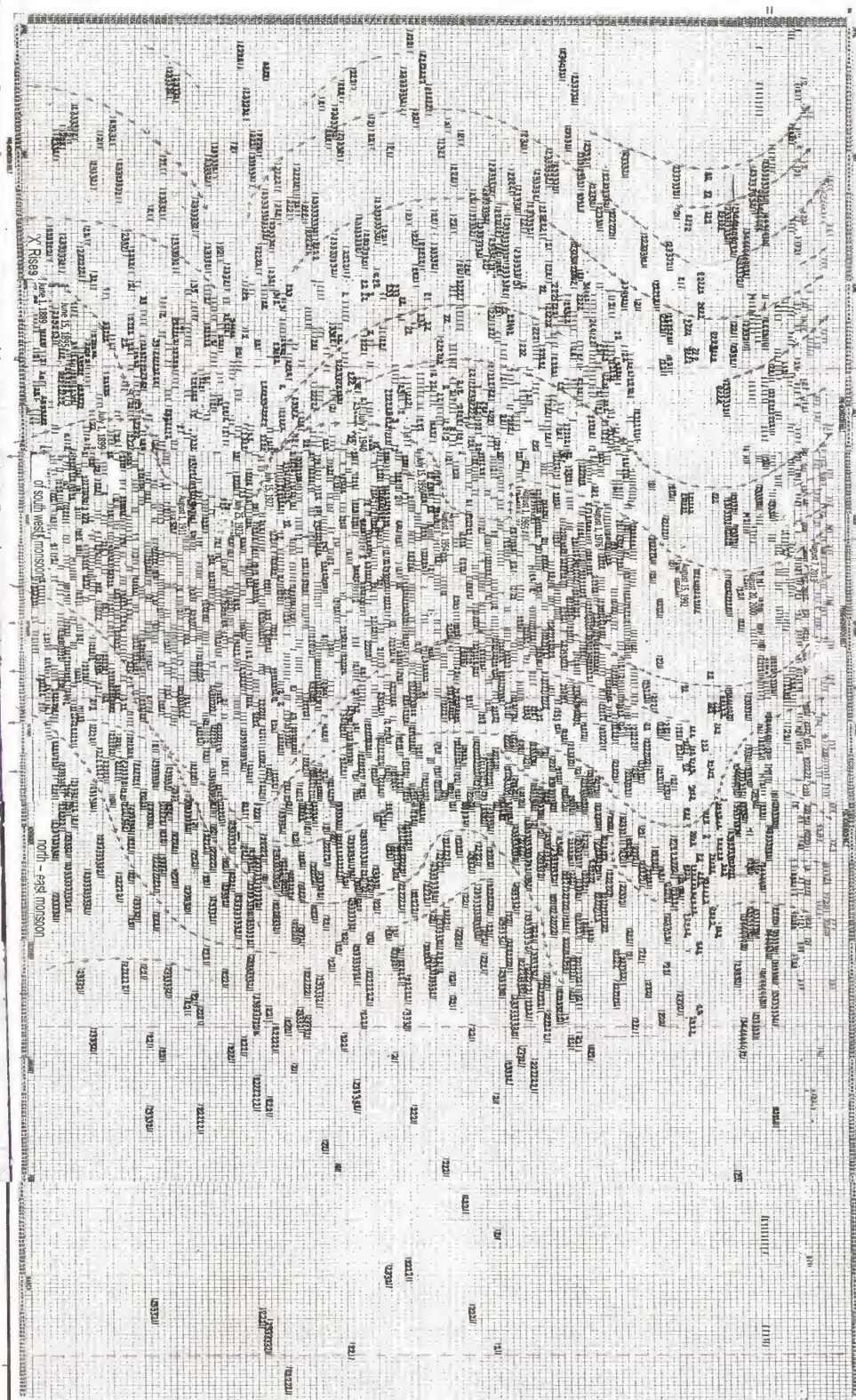
Vernal equinox

Celestial equator

Axis of the Summer solstice

Axis of the Winter Solstice.

Main paths of the Indian Monsoon.



X Rises June 1, 1889, 11.21 11.21 11.21

of south west monsoon rainfall. It will

north - east

100

$\mathbf{A} = \begin{bmatrix} 1 & 2 & 3 \\ 2 & 3 & 4 \\ 3 & 4 & 5 \end{bmatrix}$

	T	T
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
17	17	17
18	18	18
19	19	19
20	20	20
21	21	21
22	22	22
23	23	23
24	24	24
25	25	25
26	26	26
27	27	27
28	28	28
29	29	29
30	30	30
31	31	31
32	32	32
33	33	33
34	34	34
35	35	35
36	36	36
37	37	37
38	38	38
39	39	39
40	40	40
41	41	41
42	42	42
43	43	43
44	44	44
45	45	45
46	46	46
47	47	47
48	48	48
49	49	49
50	50	50
51	51	51
52	52	52
53	53	53
54	54	54
55	55	55
56	56	56
57	57	57
58	58	58
59	59	59
60	60	60
61	61	61
62	62	62
63	63	63
64	64	64
65	65	65
66	66	66
67	67	67
68	68	68
69	69	69
70	70	70
71	71	71
72	72	72
73	73	73
74	74	74
75	75	75
76	76	76
77	77	77
78	78	78
79	79	79
80	80	80
81	81	81
82	82	82
83	83	83
84	84	84
85	85	85
86	86	86
87	87	87
88	88	88
89	89	89
90	90	90
91	91	91
92	92	92
93	93	93
94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

Basic Scale 1/4

SOUTH EAST TRADE WINDS

QUARTER

ANALYSIS OF MONSOON

TIME SCALE

ANALYSIS OF RAIN

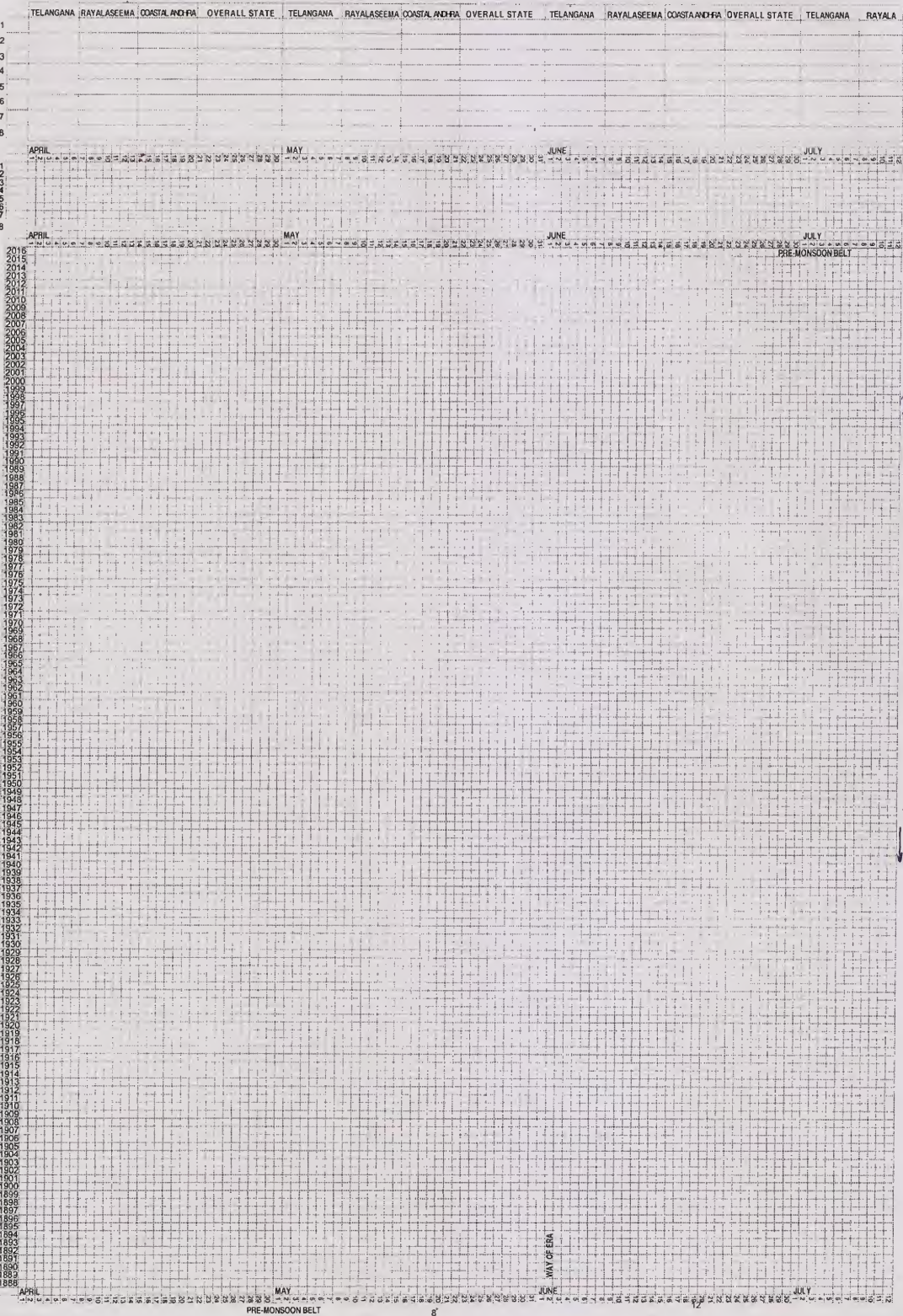
ANALYSIS OF SYSTEMS

WC-1
WC-2
WC-3
WC-4
WC-5
WC-6
WC-7
WC-8

WC-1
WC-2
WC-3
WC-4
WC-5
WC-6
WC-7
WC-8

ERA

2016
2015
2014
2013
2012
2011
2010
2009
2008
2007
2006
2005
2004
2003
2002
2001
2000
1999
1998
1997
1996
1995
1994
1993
1992
1991
1990
1989
1988
1987
1986
1985
1984
1983
1982
1981
1980
1979
1978
1977
1976
1975
1974
1973
1972
1971
1970
1969
1968
1967
1966
1965
1964
1963
1962
1961
1960
1959
1958
1957
1956
1955
1954
1953
1952
1951
1950
1949
1948
1947
1946
1945
1944
1943
1942
1941
1940
1939
1938
1937
1936
1935
1934
1933
1932
1931
1930
1929
1928
1927
1926
1925
1924
1923
1922
1921
1920
1919
1918
1917
1916
1915
1914
1913
1912
1911
1910
1909
1908
1907
1906
1905
1904
1903
1902
1901
1900
1899
1898
1897
1896
1895
1894
1893
1892
1891
1890
1889
1888



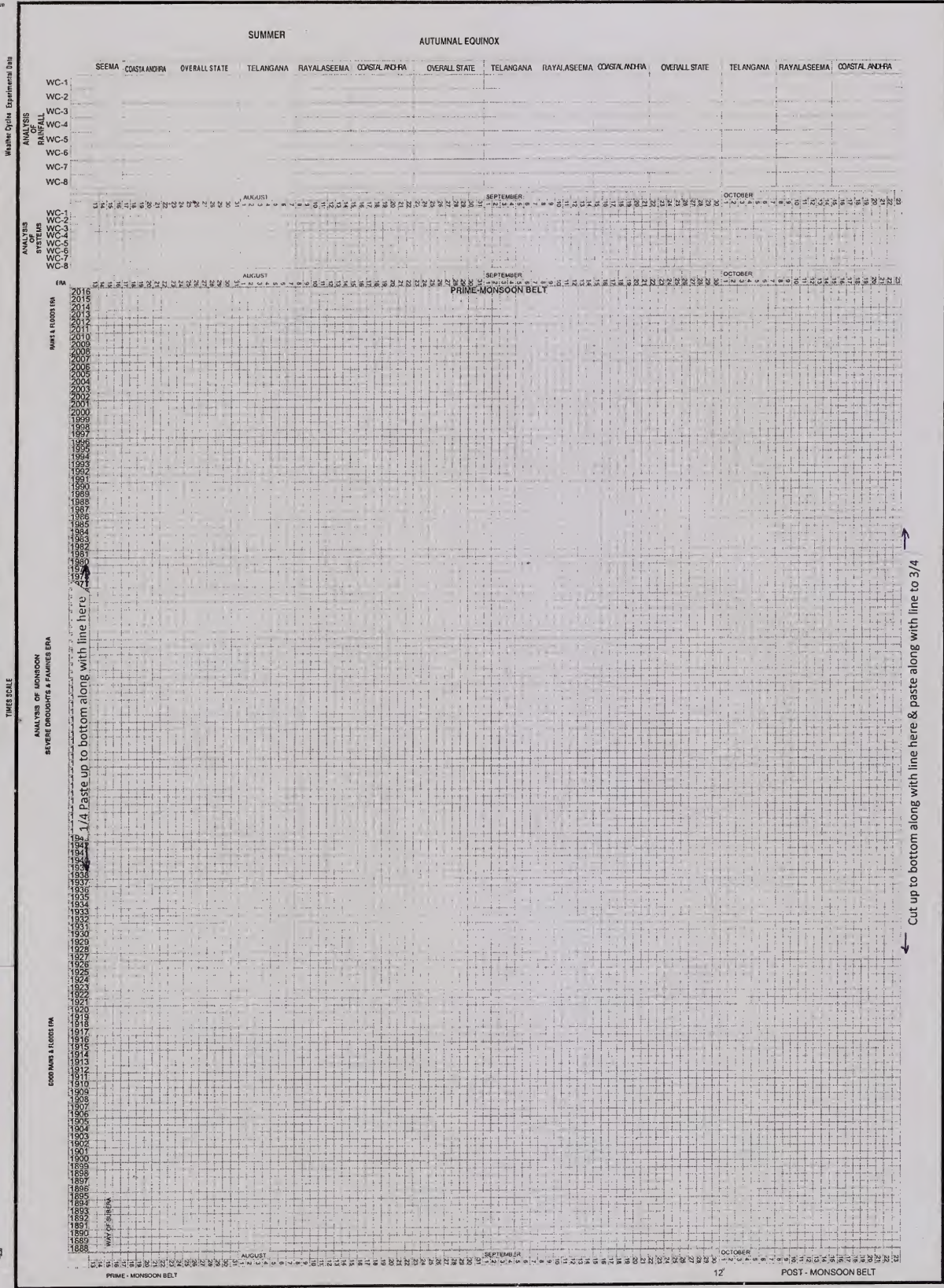
Cut up to bottom along with line here & paste along with line to 2/4

THE ITCZ SET FORTH OVER EQUATOR Trade Winds Converge at the ITCZ of I.e. a low pressure region at the equator The ITCZ Moves north wards over the Indian region The ITCZ passing over the Andhra Pradesh

INDIAN WEATHER

Basic Scale 2/4

SOUTH EAST TRADE WINDS



THE ITCZ SET FORTH OVER EQUATOR Trade Winds Converge at the ITCZ of i.e. a low pressure region at the equator The ITCZ Moves north wards over the Indian region The ITCZ passing over the Andhra Pradesh

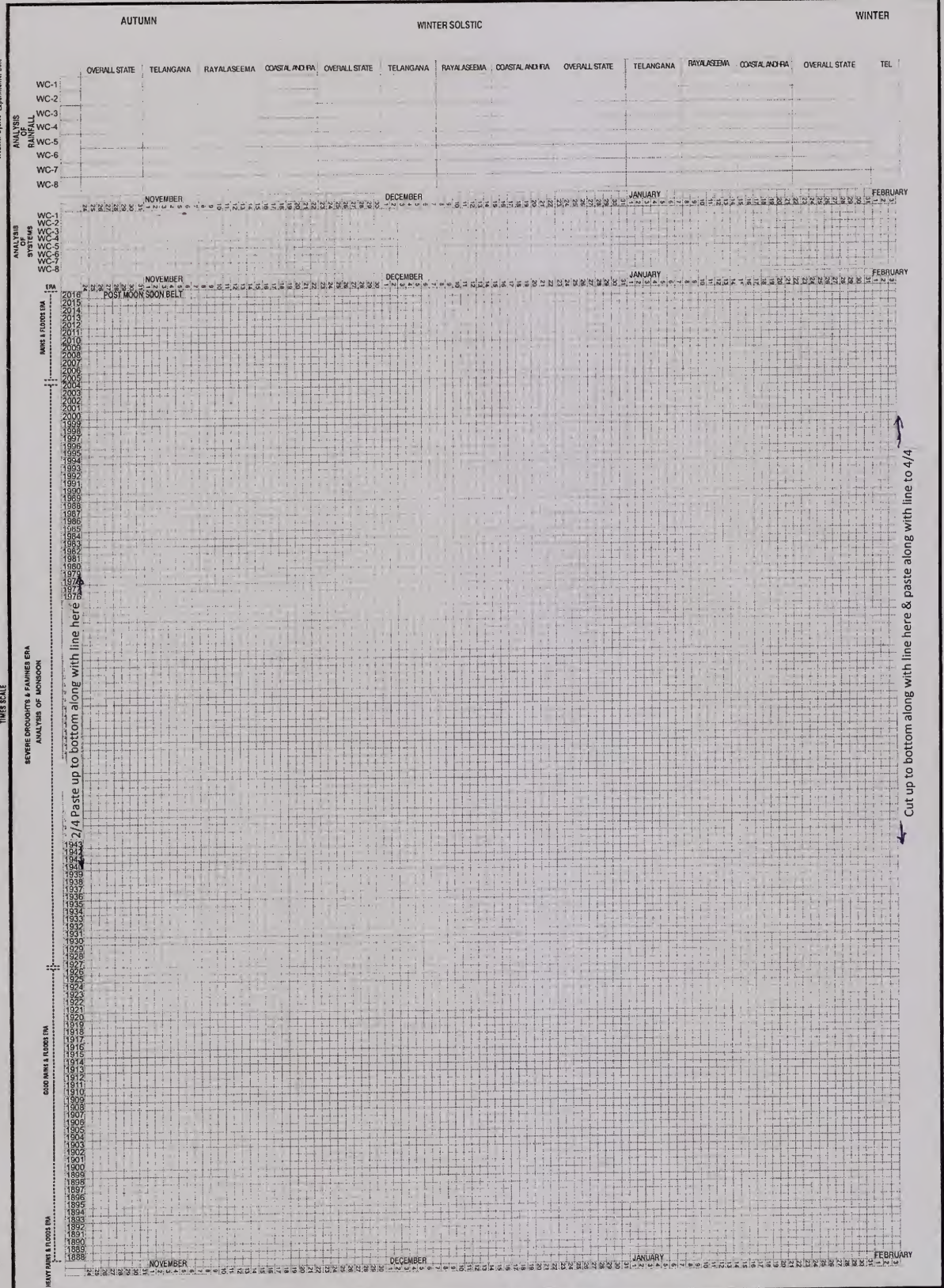
TIMES SCALE

Basic Scale 3/4

SOUTH EAST TRADE WINDS

Weather Optimal Experimental Data

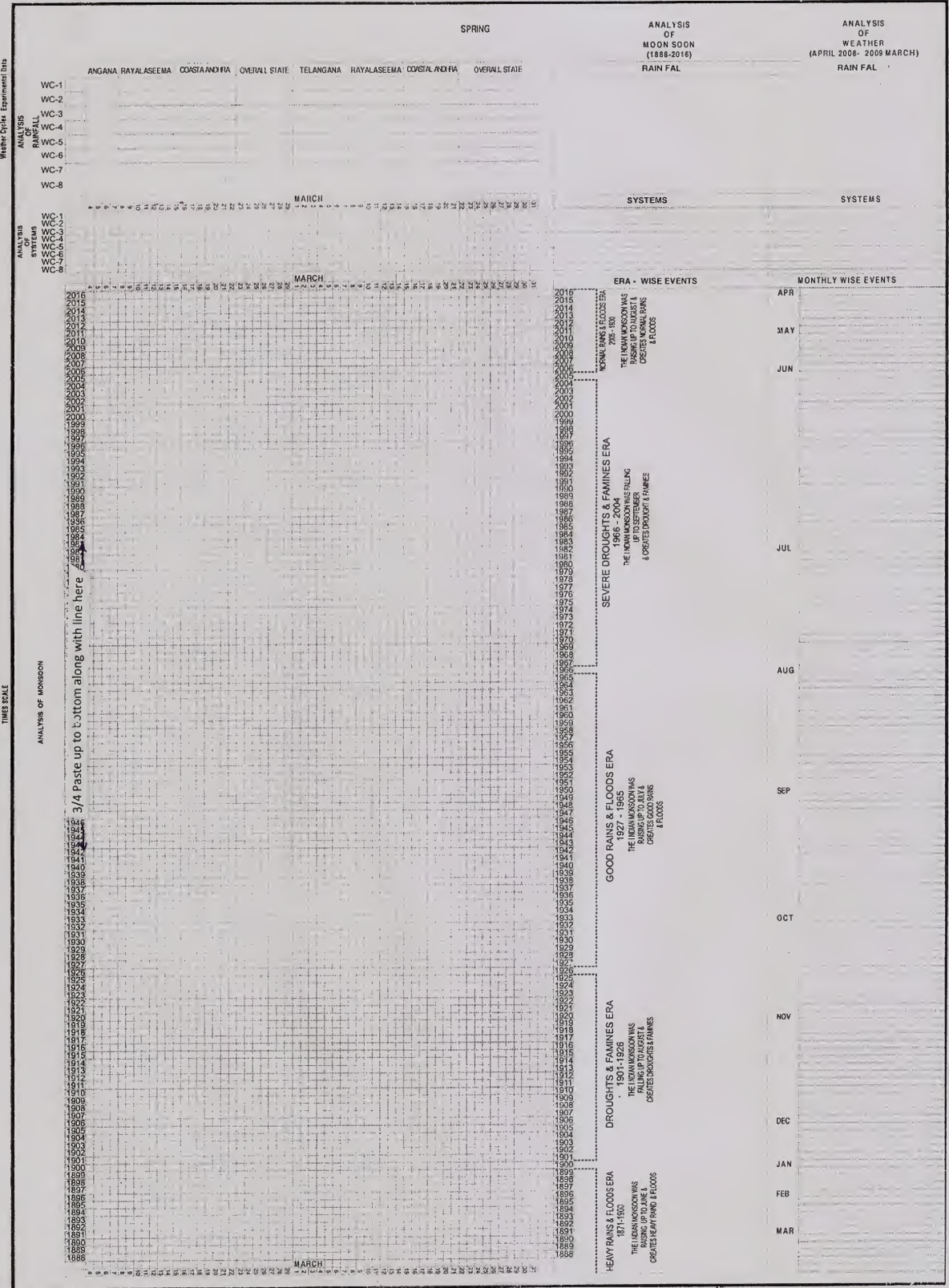
EQUATOR



THE ITCZ SET FORTH OVER EQUATOR Trade Winds Converge at the ITCZ of i.e. a low pressure region at the equator The ITCZ Moves north wards over the indian region The ITCZ passing over the Andhra Pradesh

Basic Scale 4/4

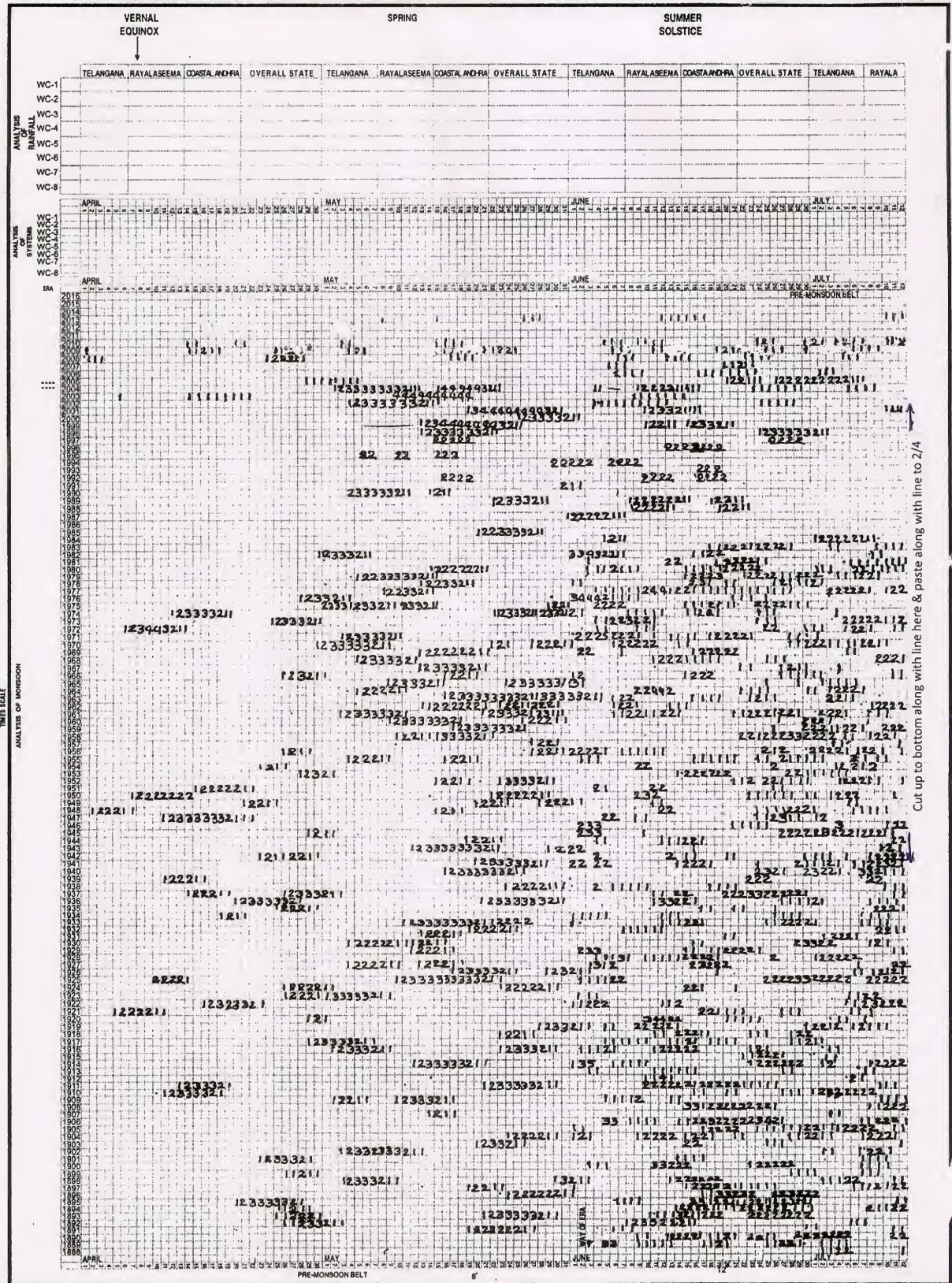
SOUTH EAST TRADE WINDS



THE ITCZ SET FORTH OVER EQUATOR Trade Winds Converge at the ITCZ of I.e. a low pressure region at the equator The ITCZ Moves north wards over the indian region The ITCZ passing over the Andhra Pradesh

filled Scaled 1/4

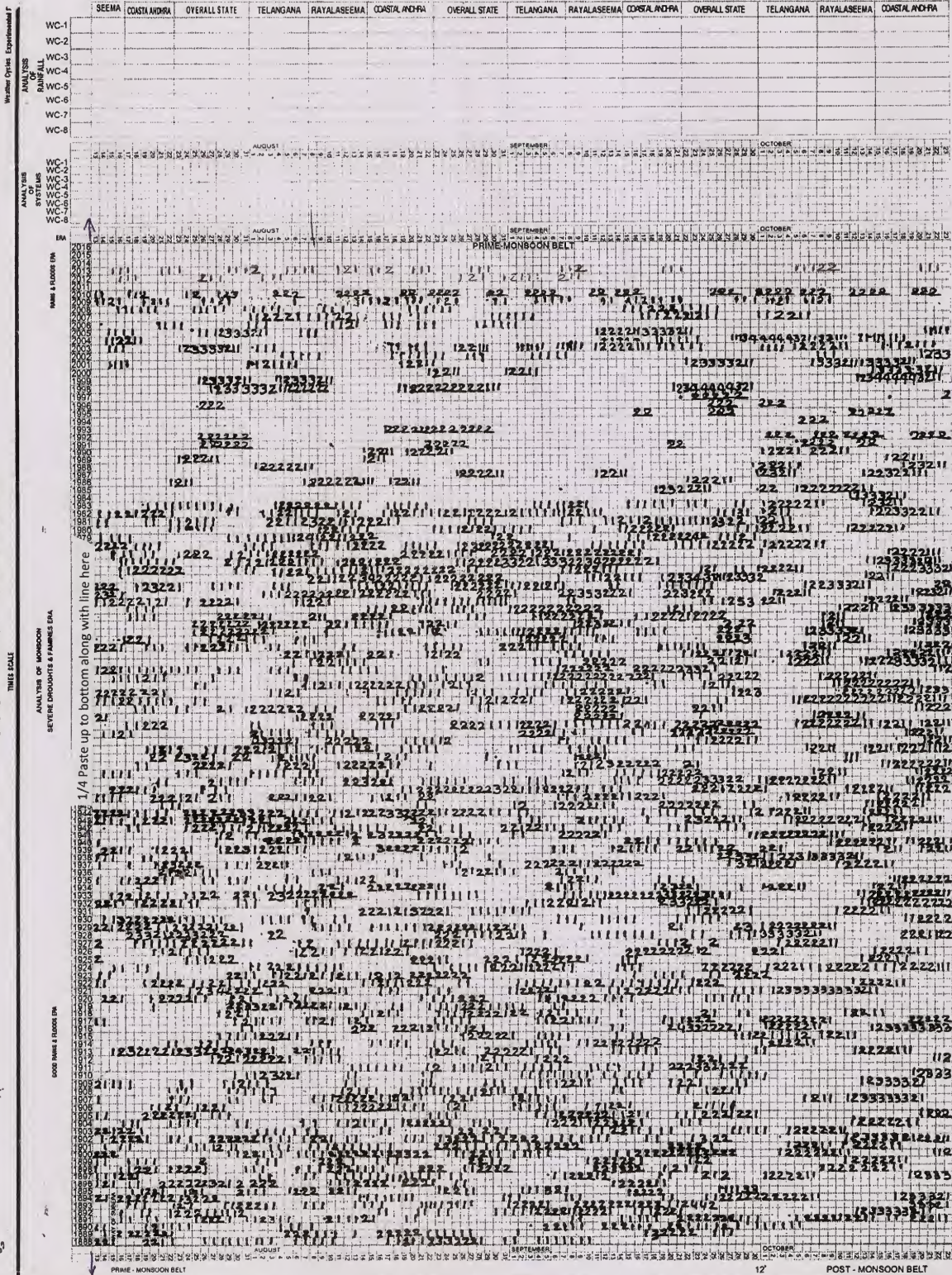
SOUTHEAST TRADE WINDS



THE ITCZ SET FORTH OVER EQUATOR Trade Winds Converge at the ITCZ of I.e. a low pressure region at the equator The ITCZ Moves northwards over the Indian region The ITCZ passing over the Andhra Pradesh

filled Scaled 2/4

SOUTH EAST TRADE WINDS



7-7 SFT NORTH OVER FOIATOR

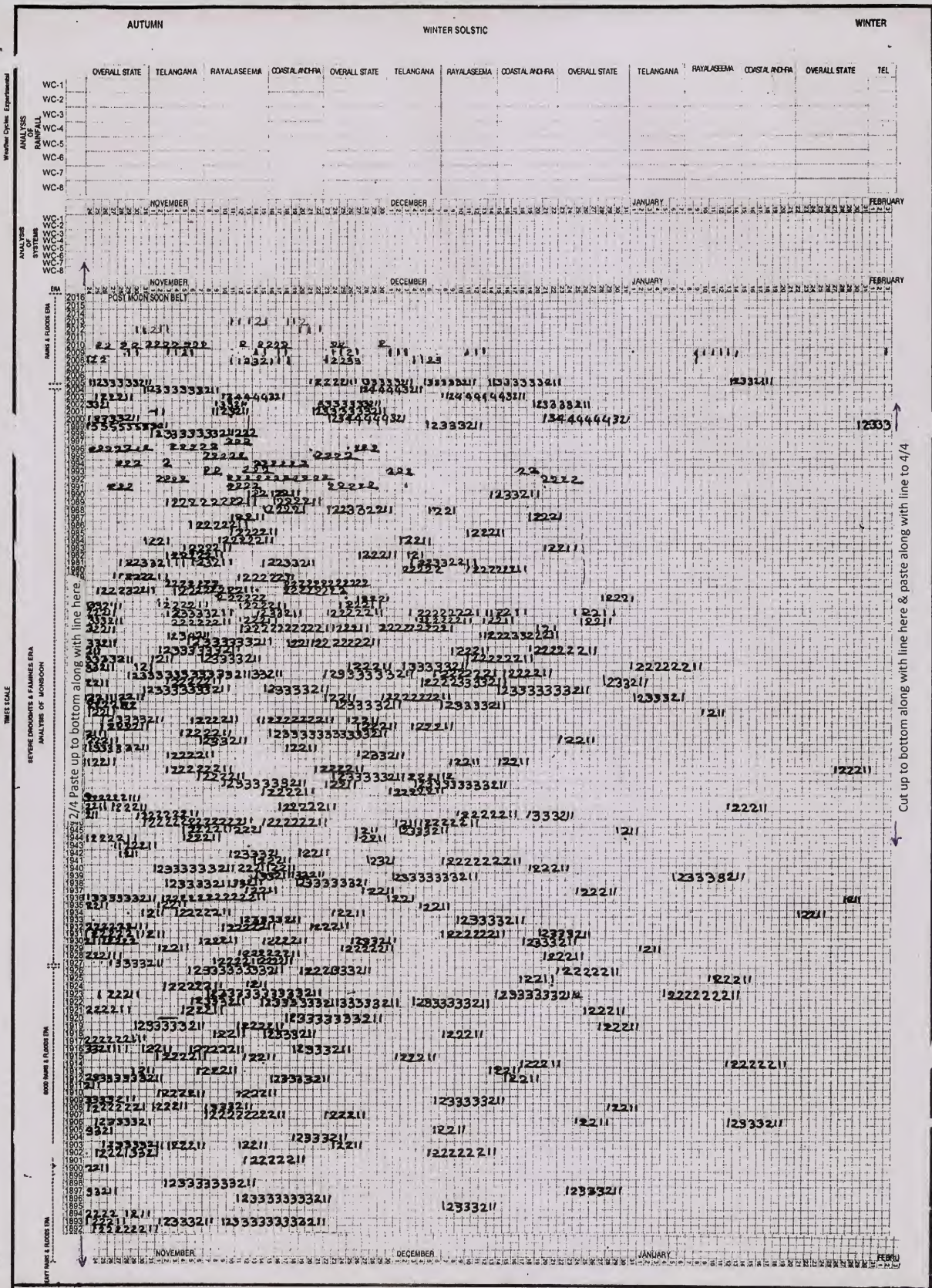
Trade Winds Converge at the ITCZ of i.e. a low pressure region at the equator

The ITCZ Moves north wards over the Indian region

The ITCZ passing over the Andhra Pradesh

filled Scaled 3/4

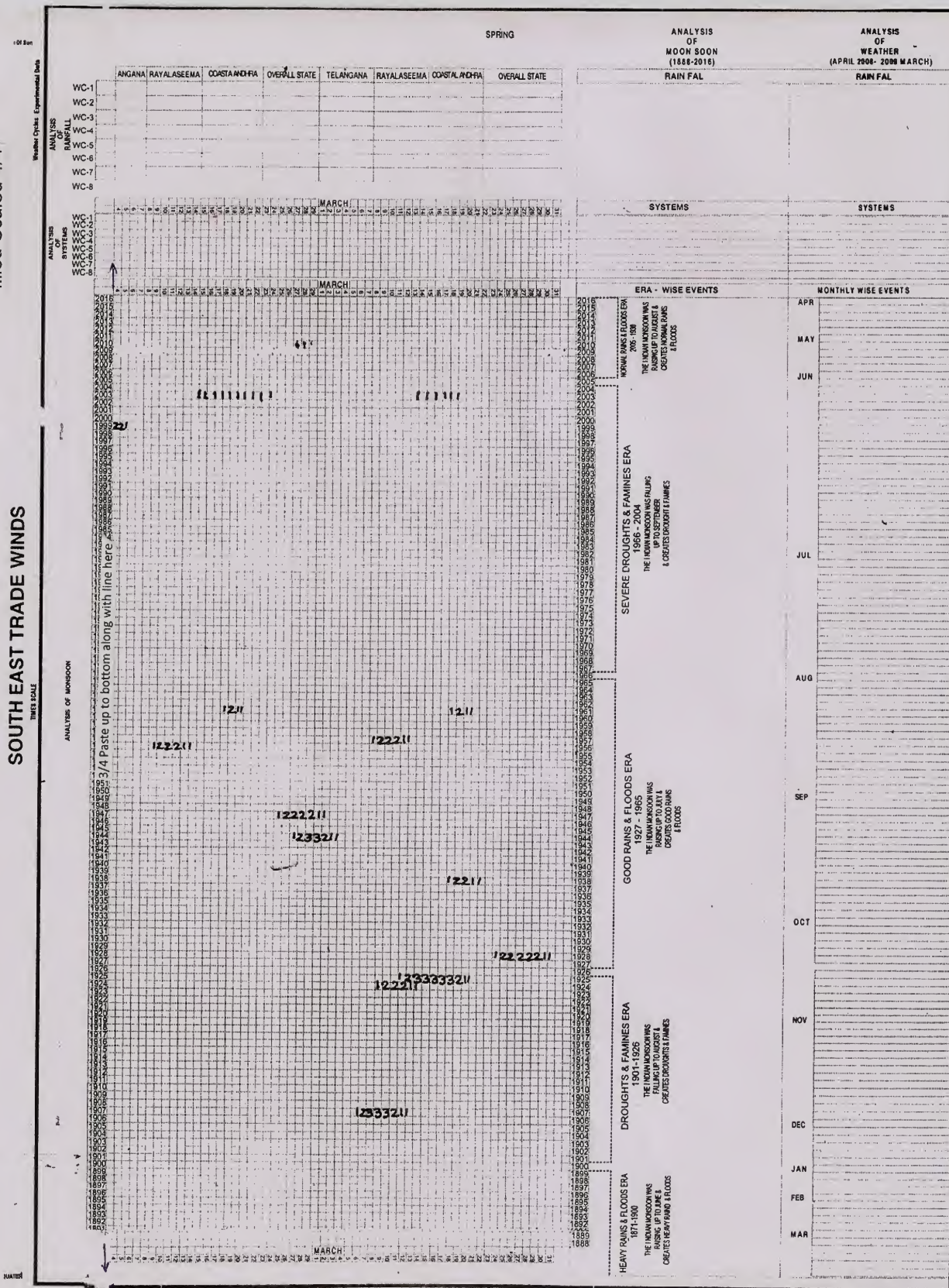
SOUTH EAST TRADE WINDS



THE ITCZ SE RTH OVER EQUATOR Trade Winds Converge at the ITCZ of i.e. a low pressure region at the equator The ITCZ Moves north wards over the Indian region The ITCZ passing over the Andhra desh

మలబార్ సముద్రాల ఘటతల ఉపబలముగా మారగలవు

SOUTH EAST TRADE WINDS



THE ITCZ SET

IN OVER EQUATOR

Trade Winds Converge at the ITCZ of i.e. a low pressure region at the equator

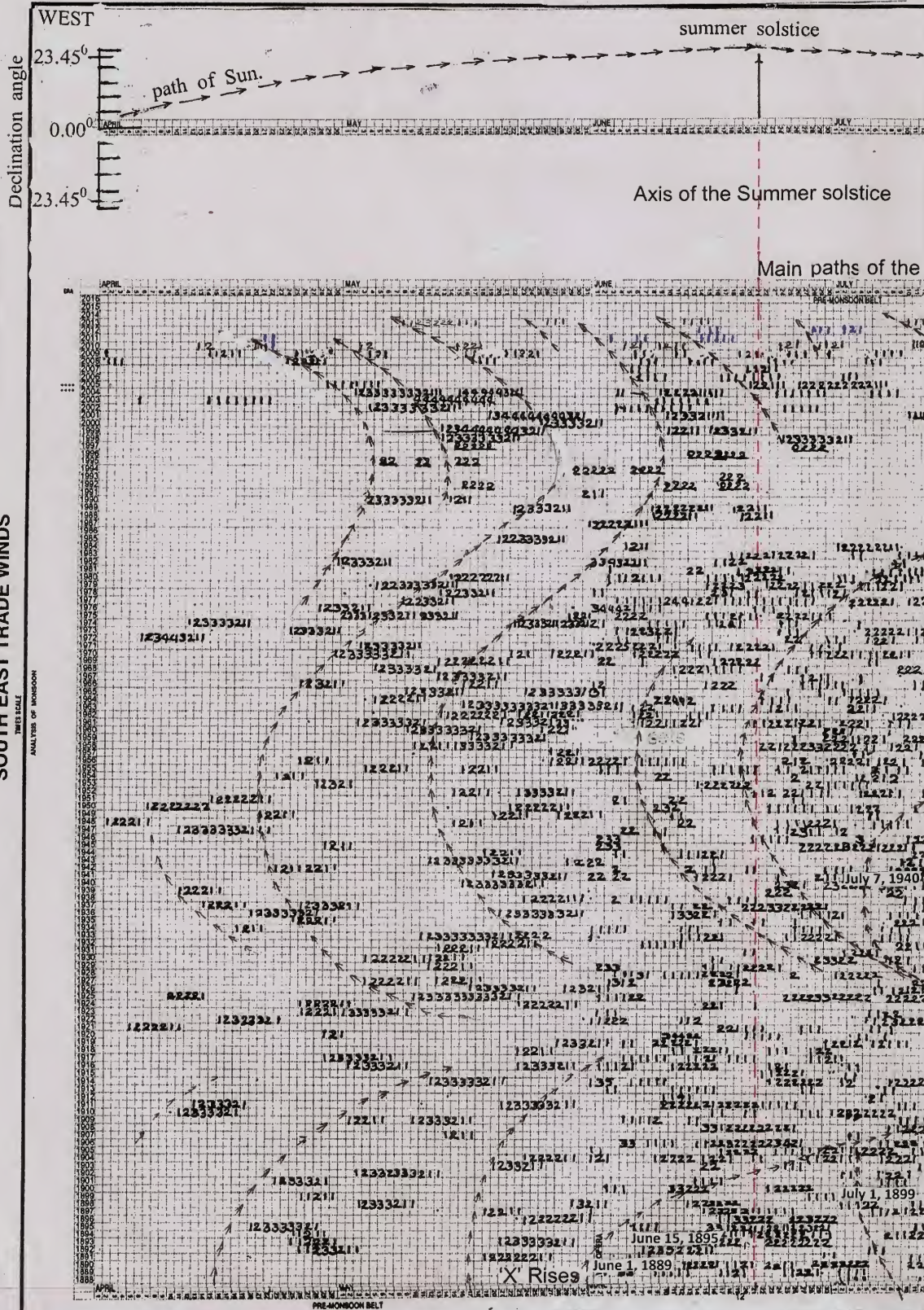
The ITCZ Moves north wards over the Indian region

The ITCZ passing over the Andhra Pradesh

Analysed Scale 1/4

SOUTH EAST TRADE WINDS

ANALYSIS OF MONSOON



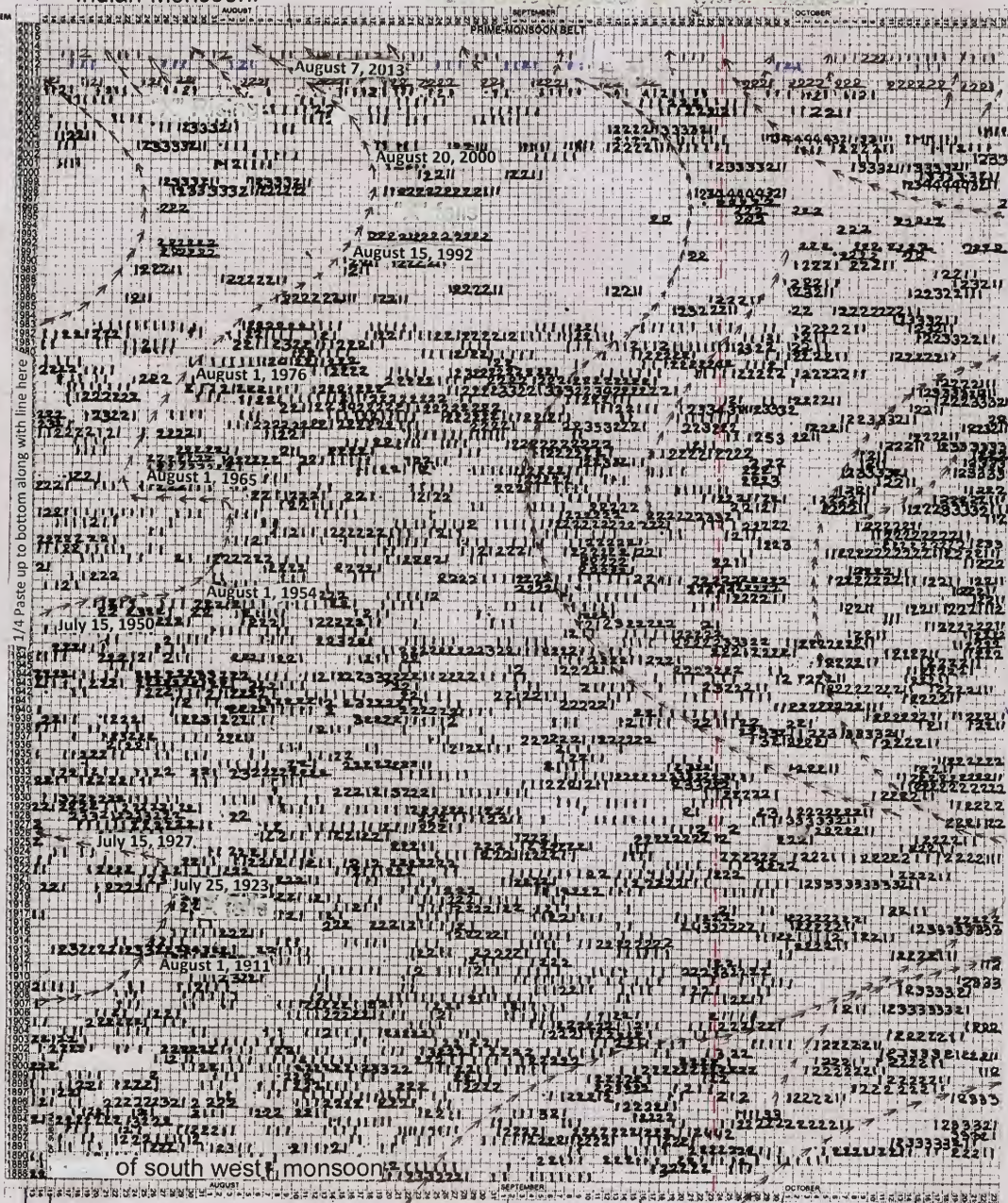
INDIAN MONSOON

Autumnal equinox,

Analysed Scale 2/4

SOUTH EAST TRADE WINDS

Indian Monsoon.



Cut up to bottom along with line here & paste along with line to 3/4

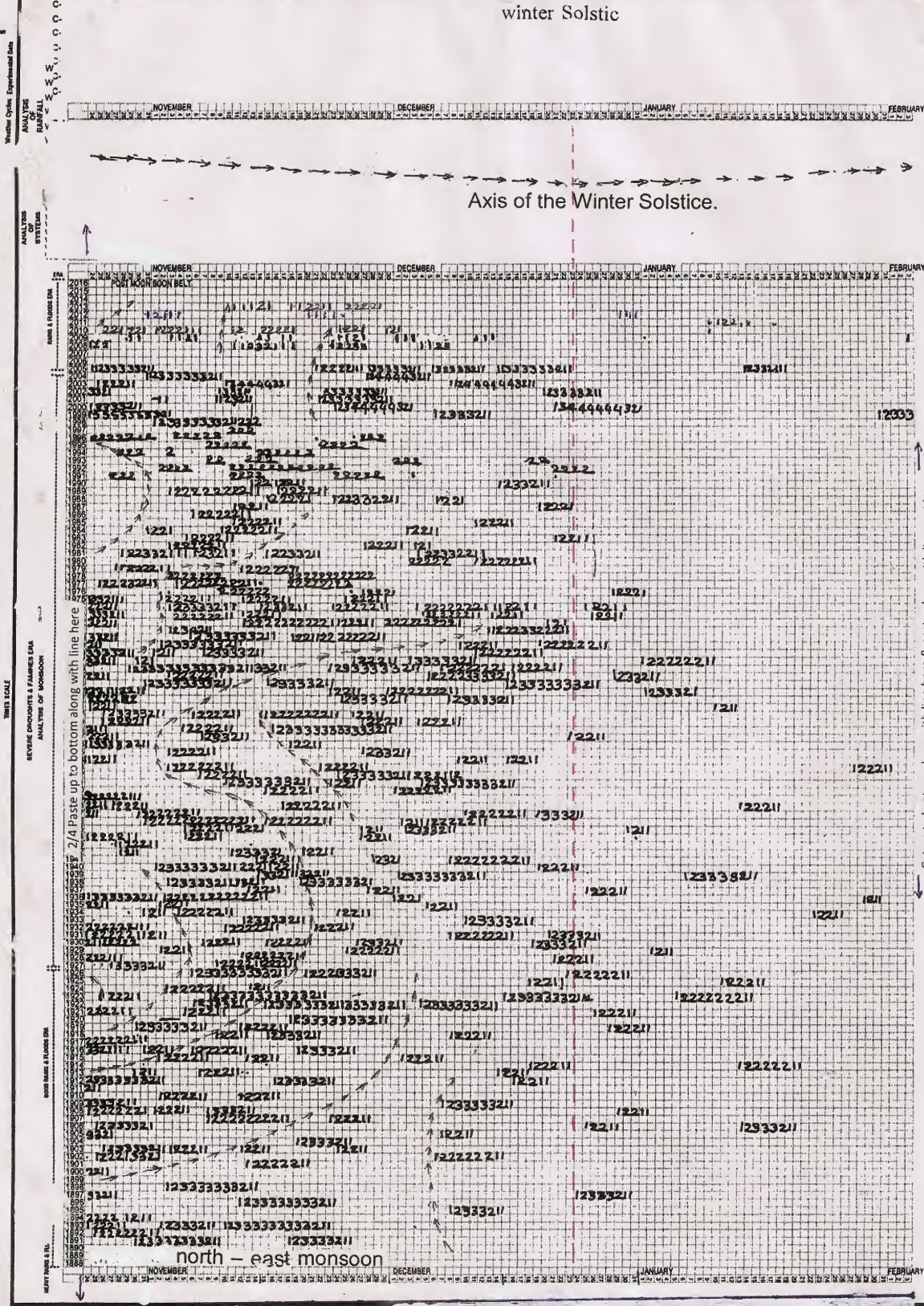
TIME SCALE

winter Solstic

Analysed Scale 3/4

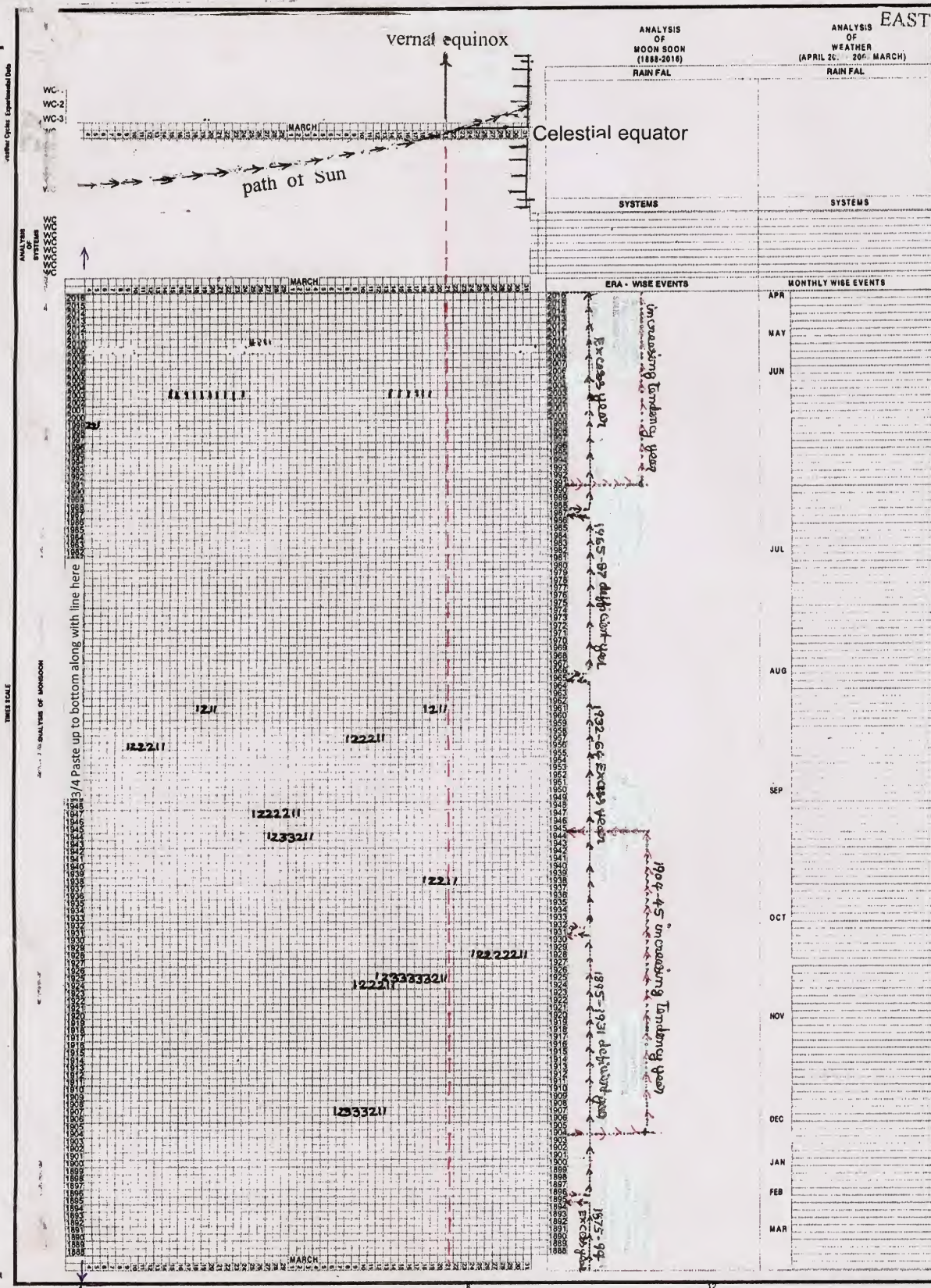
OUTH EAST TRADE WINDS

THE ITCZ SET



Analysed Scale 4/4

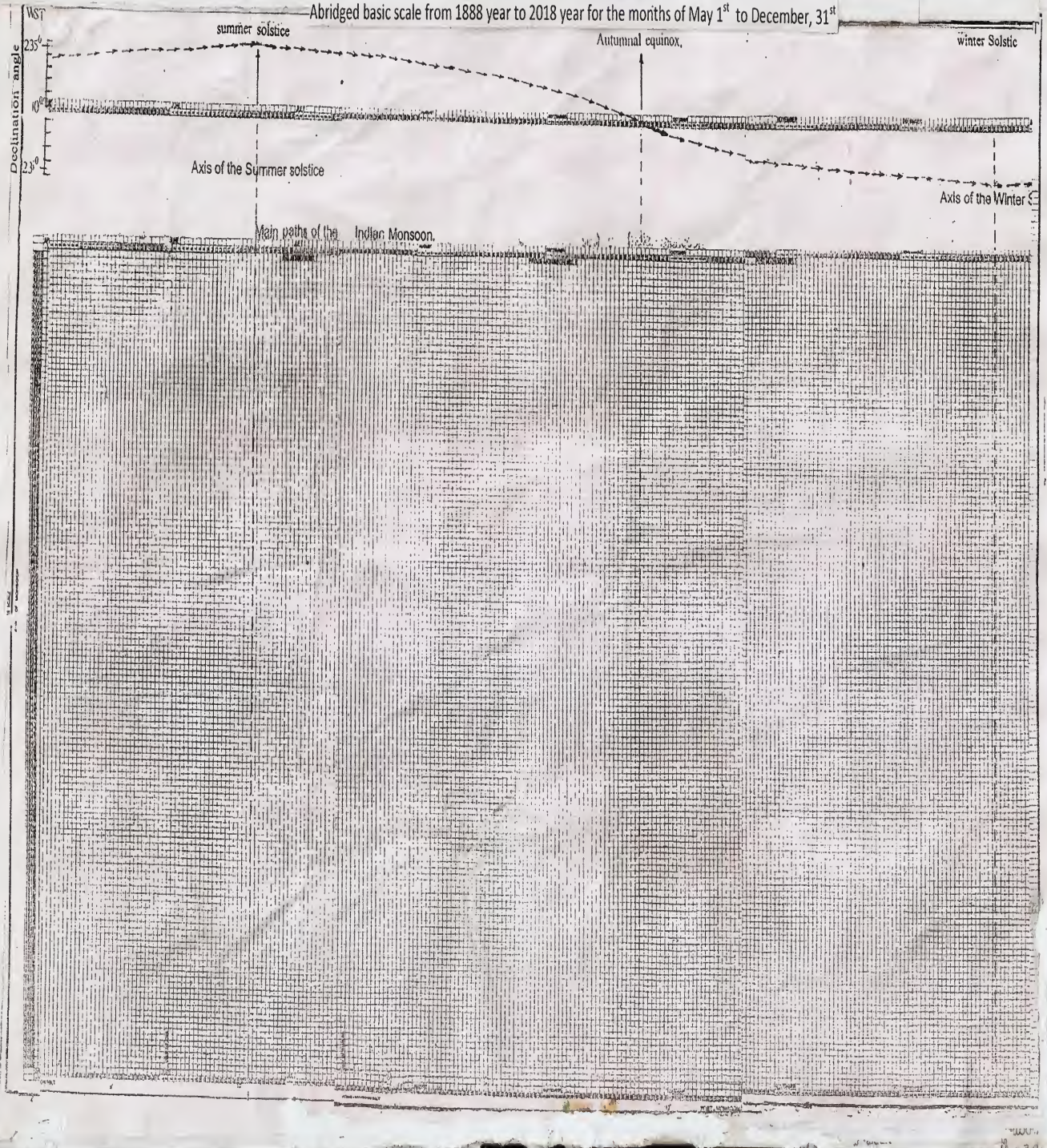
SOUTH EAST TRADE WINDS



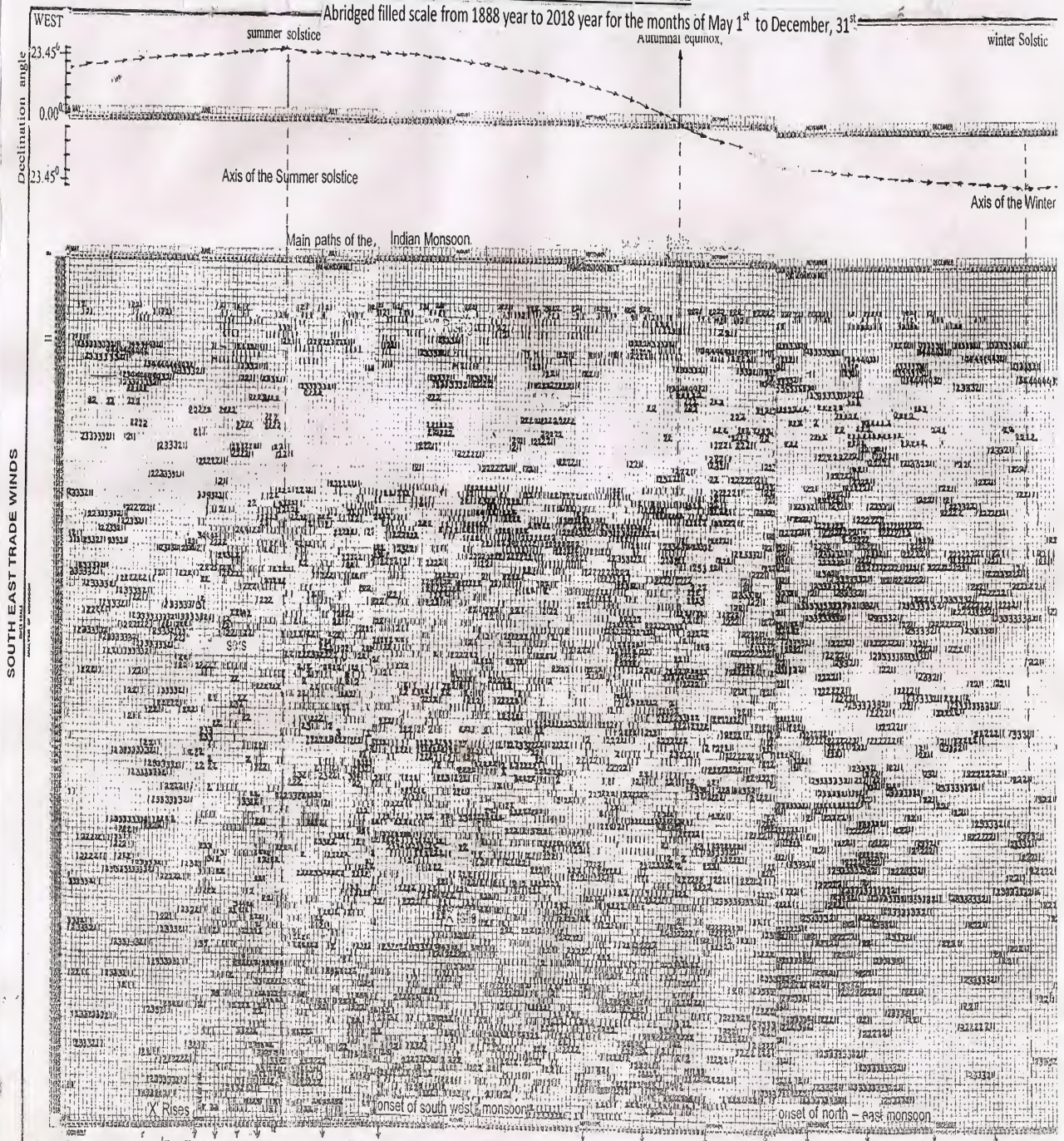
T. 1702

INDIAN MONSOON TIME SCALE

Abridged basic scale from 1888 year to 2018 year for the months of May 1st to December, 31st



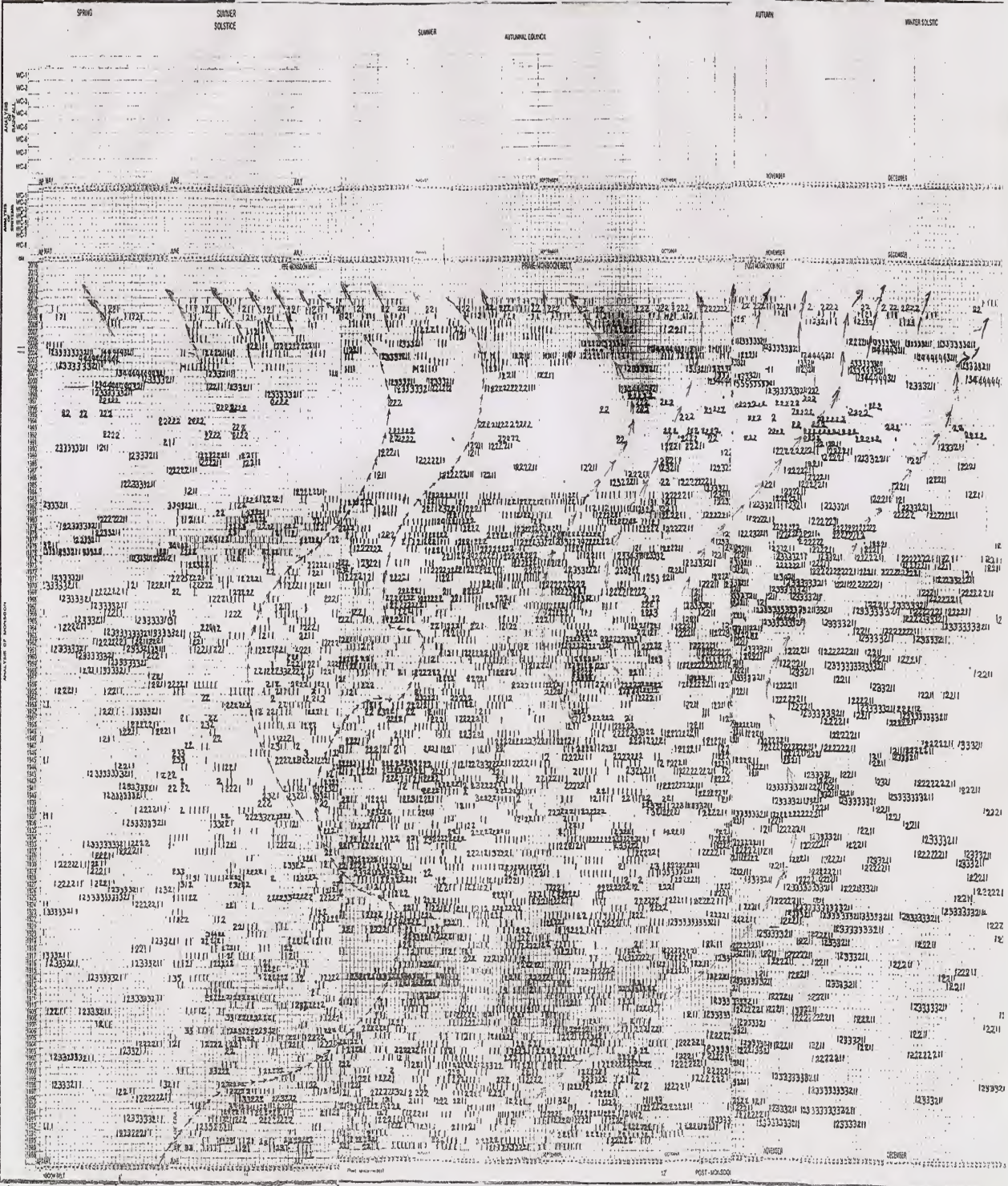
INDIAN MONSOON TIME SCALE



INDIAN MONSOON TIME SCALE

Abridged analysed scale from 1888 year to 2018 year for the months of May 1st to December, 31st

SOUTH EAST TRADE WINDS

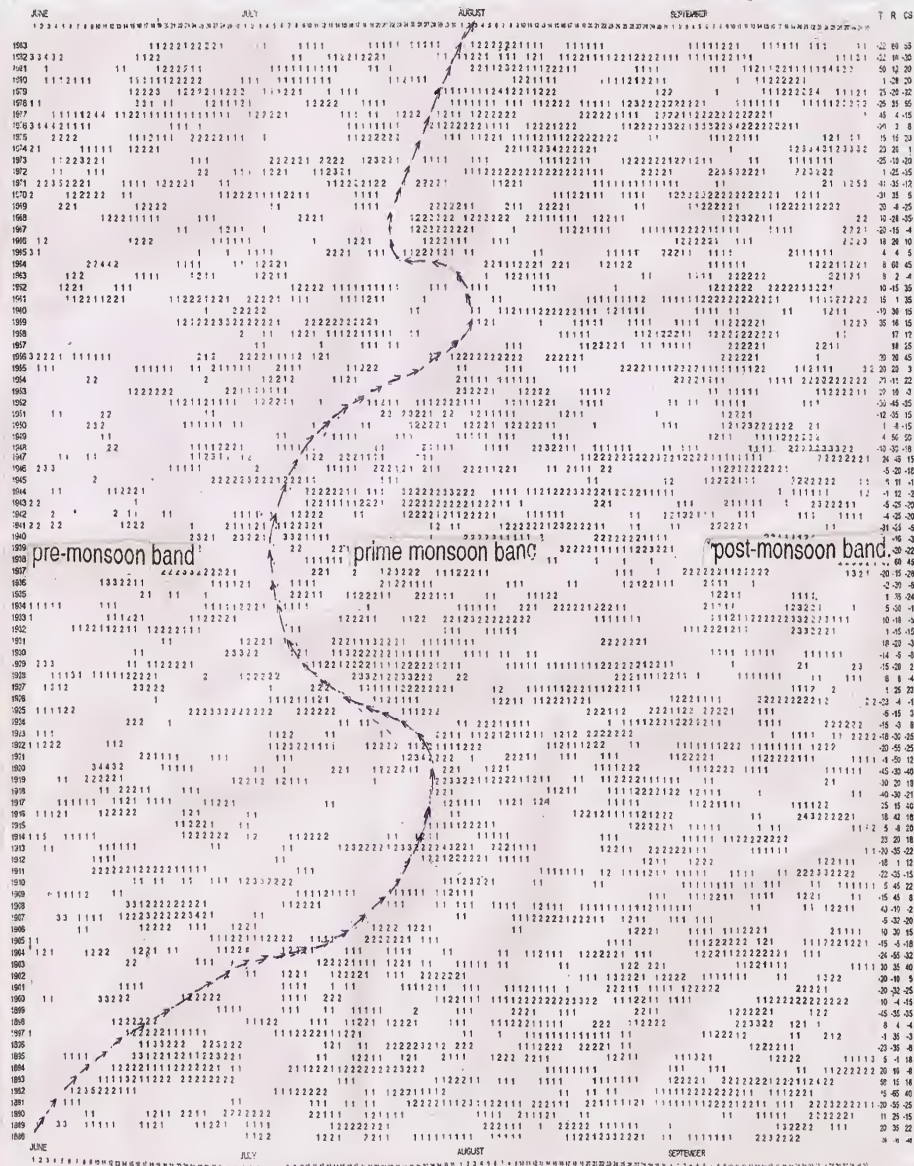


MAP OF THE INDIAN MONSOON

ANALYSIS
OF
Years
(1888-1993)ANALYSIS
OF
Month's
(JUN:SEP)[illegible]

Computerised basic scale from 1888 year to 1983 year for the months of 1st June to September, 31st.

ANALYSIS



Computerised analysed scale from 1888 year to 1983 year for the months of 1st June to September, 31st.